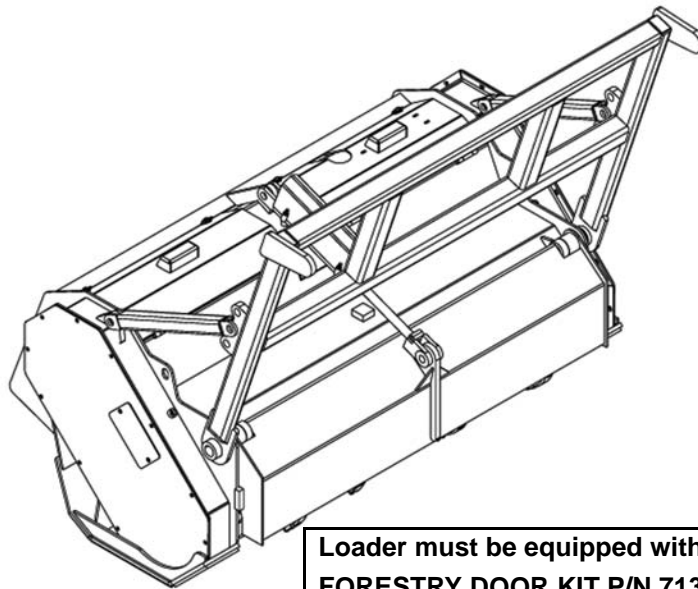




Bobcat®

Operation & Maintenance Manual Forestry Cutter

(FRST CTTR FRC50) S/N ADTN00101 & Above
(FRST CTTR FRC50) S/N ANR600101 & Above
(Forestry Cutter) S/N A6ZB00101 & Above
(FRST CTTR FRC60) S/N ANR500101 & Above



Loader must be equipped with the
FORESTRY DOOR KIT P/N 7131885
(earlier models) or 7174127 (later models)
and **OTHER APPROVED FORESTRY KITS**

**Forestry Cutter Maintenance
Training DVD Included**



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SERIAL NUMBER LOCATION

Figure 1

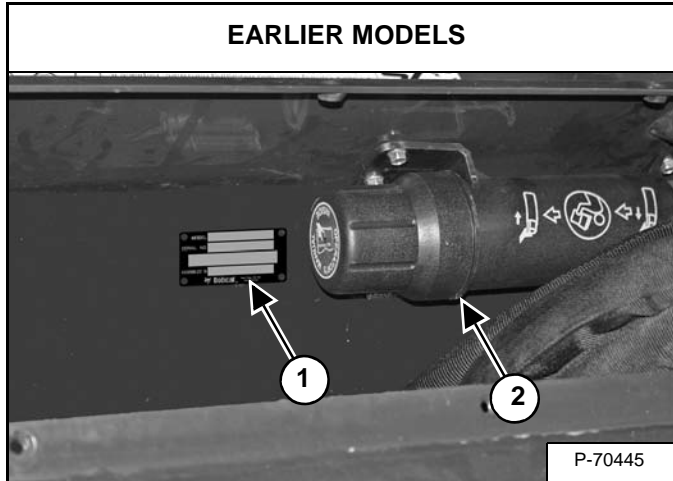
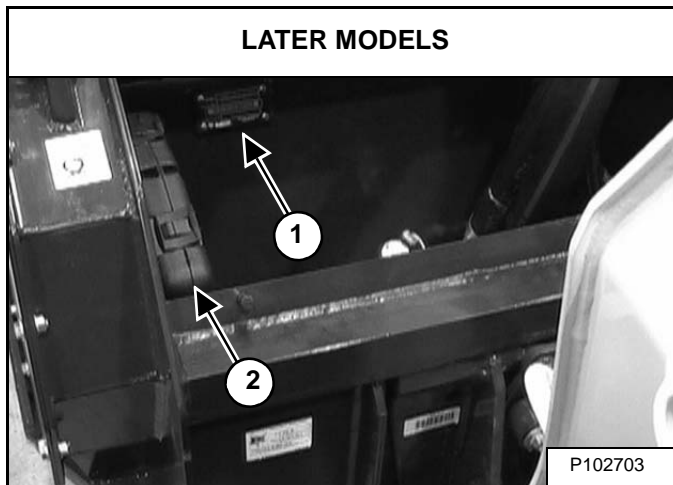


Figure 2



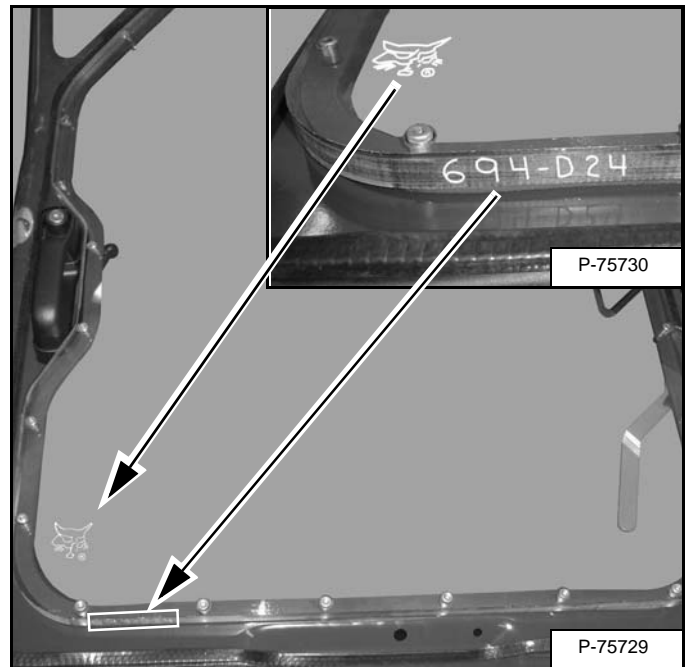
Always use the serial number (Item 1) [Figure 1] or [Figure 2] of the forestry cutter when requesting service information or when ordering parts (Serial number is located under the left cover). Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

MANUAL STORAGE

The manual storage container (Item 2) [Figure 1] and [Figure 2] is mounted under the left cover of the forestry cutter.

FORESTRY DOOR SERIAL NUMBER

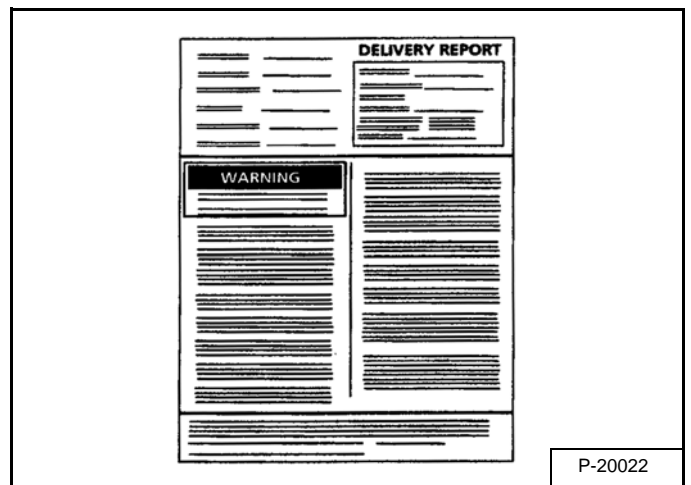
Figure 3



The forestry door serial number is located under the lower right-hand corner of the window (as viewed from the operator's seat) below the Bobcat logo [Figure 3].

DELIVERY REPORT

Figure 4



The delivery report [Figure 4] must be completed by the dealer and signed by the owner or operator when the Bobcat forestry cutter is delivered. An explanation of the form must be given to the owner.

FIRE PREVENTION



Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Spark Arrestor Exhaust System

The spark arrestor exhaust system is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

Check the spark arrestor exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler (if equipped).

DAILY INSPECTION (CONT'D)

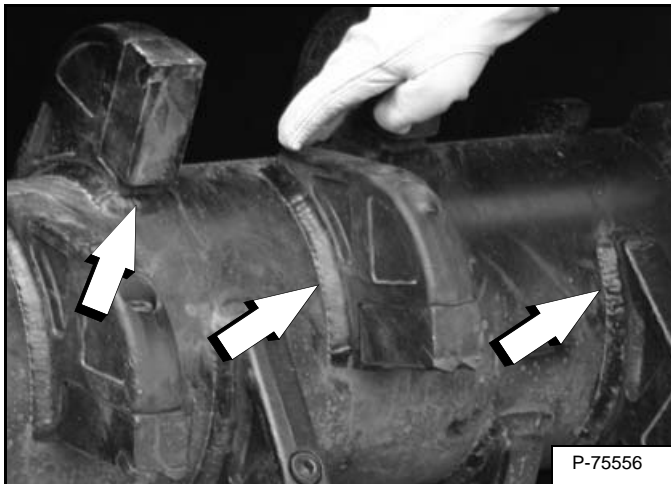
Drum (Cont'd)

Figure 15



Tighten any loose teeth to the proper torque [Figure 15]. Tighten bolts to 240 - 260 N•m (175 - 190 ft-lb) torque.

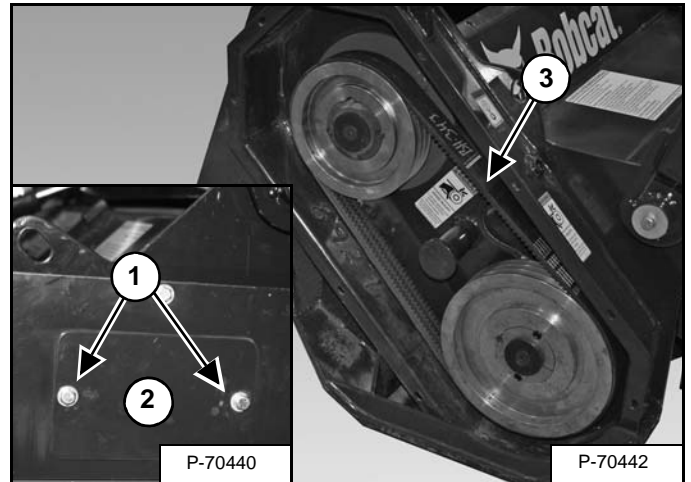
Figure 16



Inspect all mounting weldments [Figure 16] on the drum.

Drive Belt

Figure 17



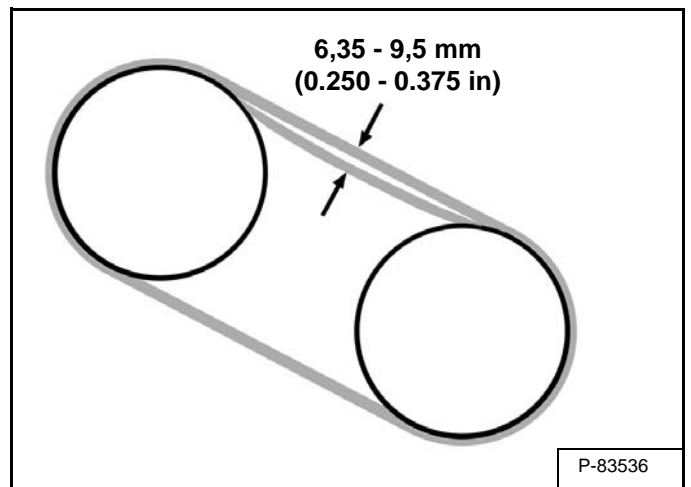
NOTE: Side cover removed for picture clarity [Figure 17].

Remove the two bolts (Item 1) and inspection cover (Item 2) [Figure 17].

Installation: Tighten bolts to 34 - 38 N•m (25 - 28 ft-lb) torque.

Inspect the drive belt (Item 3) [Figure 17] for proper belt deflection [Figure 18].

Figure 18



Check the belt tension by pressing forcefully on the belt. The belt should move between 6,35 - 9,5 mm (0.25 - 0.375 in) [Figure 18].

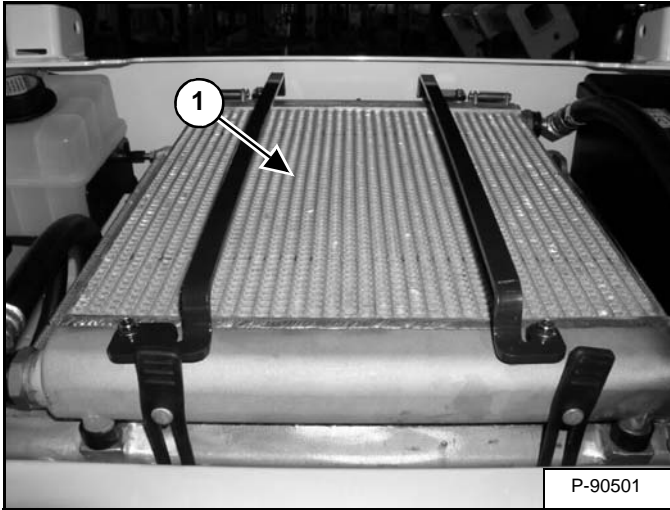
Tighten drive belts as necessary. (See DRIVE BELT TENSION on Page 74.)

DAILY INSPECTION (CONT'D)

Loader Cleaning (Later Models) (Cont'd)

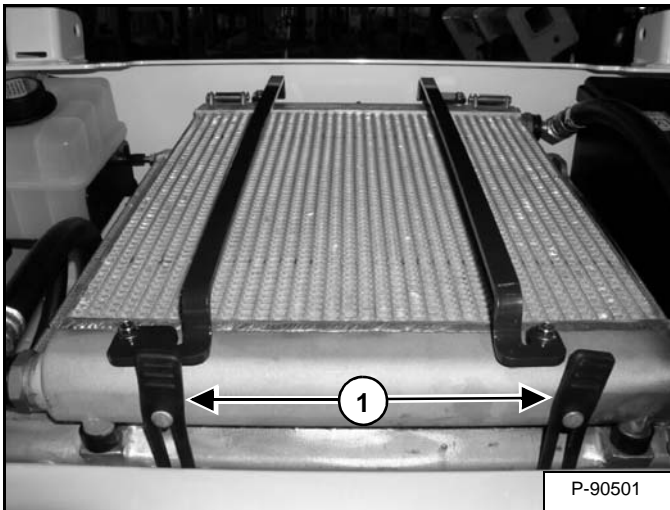
Loaders Without Air Conditioning

Figure 40



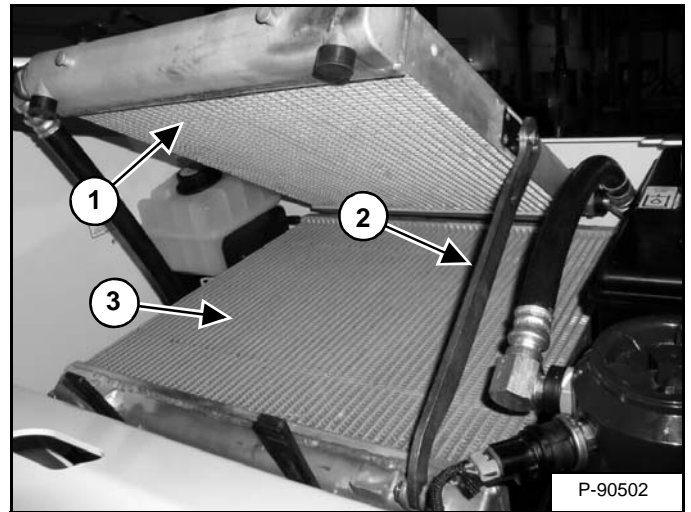
Use low air pressure or water pressure to clean the top of the oil cooler (Item 1) [Figure 40].

Figure 41



Remove the two rubber straps (Item 1) [Figure 41].

Figure 42



Raise the oil cooler (Item 1) until the bar (Item 2) drops into place to support the oil cooler. Use low air pressure or water pressure to clean the top of the radiator (Item 3) [Figure 42].

Raise the bar (Item 2) [Figure 42] slightly and lower the oil cooler.

Fasten the two rubber straps (Item 1) [Figure 41].

NOTE: Clean the engine compartment. (See Engine Compartment Cleaning on Page 40.)

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Installation (Cont'd)

Power Bob-Tach

! WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause serious injury or death.

W-2744-0608

This loader may be equipped with a Power Bob-Tach.

Enter the loader. (See Entering And Exiting The Loader on Page 45.)

Start the engine, press the PRESS TO OPERATE LOADER button and release the parking brake.

Figure 63

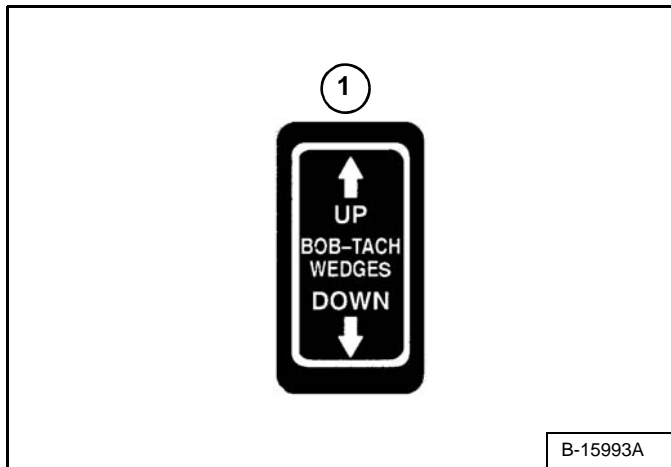
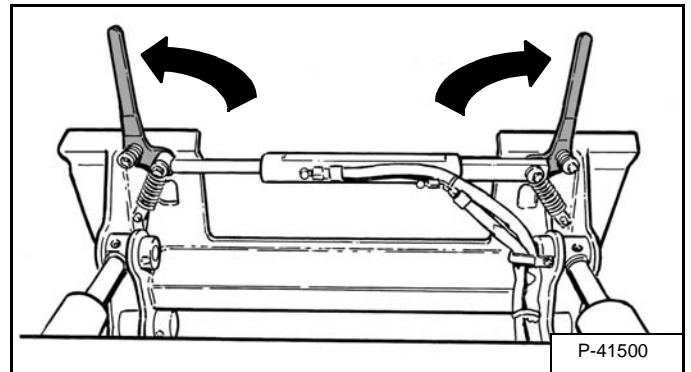
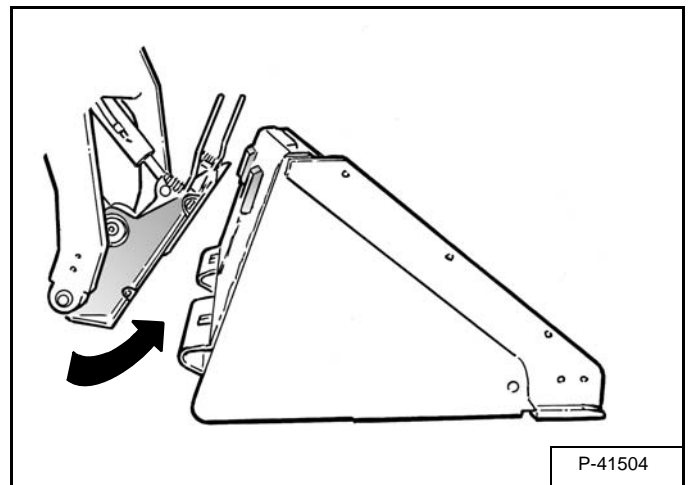


Figure 64



Push and hold the BOB-TACH “WEDGES UP” switch (Item 1) [Figure 63] until the levers are fully raised (wedges fully raised) [Figure 64].

Figure 65



Lower the lift arms and tilt the Bob-Tach slightly forward.

Drive the loader slowly forward until the top edge of the Bob-Tach is completely under the top flange of the attachment mounting frame [Figure 65].

NOTE: Be sure the Bob-Tach levers do not hit the attachment.

OPERATING PROCEDURE WITH LOADERS (CONT'D)

Operation With The Loader (Cont'd)

Tree Toppling (Cont'd)

Figure 83



Trees 0 - 100 mm (0 - 4 in) In Diameter

Fully raise the lift arms, cut the tree as high as possible. This leaves the bottom of the tree attached to the ground and makes cutting more efficient. Drive the loader / forestry cutter into the tree. Punch the tree rather than easing into it [Figure 83].

Once the tree is cut off, lower the cutter over the remaining tree trunk and cut it in increments so that you do not stall the drum. If you lower the cutter too quickly you may lug down the engine or stall the cutter. This will create less drag on the forestry cutter which creates less heat and less fine sawdust than applying continuous pressure [Figure 83].

Figure 84



Trees Larger Than 100 mm (4 in) In Diameter

Fully raise the lift arms, reaching as high on the tree as possible. Move the loader and forestry cutter toward the tree. Punch the tree rather than easing into it. Easing into the tree will create drag on the drum and could stall the drum. Continue to punch into the tree until the tree is cut through [Figure 84].

Move away from the tree, lower lift arms approximately 300 - 600 mm (12 - 24 in). Move the loader and forestry cutter toward the tree and punch again, ensuring drum does not stall [Figure 84].

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FORESTRY CUTTER SERVICE SCHEDULE

BEFORE SERVICING FORESTRY CUTTER:

1. Lower the lift arms and put Forestry Cutter flat on ground.
2. Stop the engine and remove the key.
3. Make sure the cutter drum has stopped rotating.

EVERY 10 HOURS OF OPERATION:

1. Check for proper function of the Forestry Door Interlock. Inspect Forestry Door for damage. Replace if necessary.
2. Inspect Level II Falling Object Protective Structure (FOPS) for damage. Repair if damaged or replace if necessary.
3. Clean debris, leaves, branches and flammable material from Forestry Cutter and machine.
4. Check cutting teeth and drum for cracks or damage. Replace if necessary.
5. Check teeth mounting hardware for proper torque 190 ft-lbs (260 Nm).
6. Check for damaged or missing decals. Replace if necessary.
7. Check for damaged or leaking hydraulic hoses or fittings. Replace if necessary.
8. Lubricate (2) grease points.

EVERY 40 HOURS OF OPERATION:

1. Lubricate grease point under cover.

SEE ATTACHMENT OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

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